

MD 150 IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

SIGNALS

1,2,3,4,
5,6,7,8
R
Y
G
12"

9,11
R3-3(3)
24"x36"

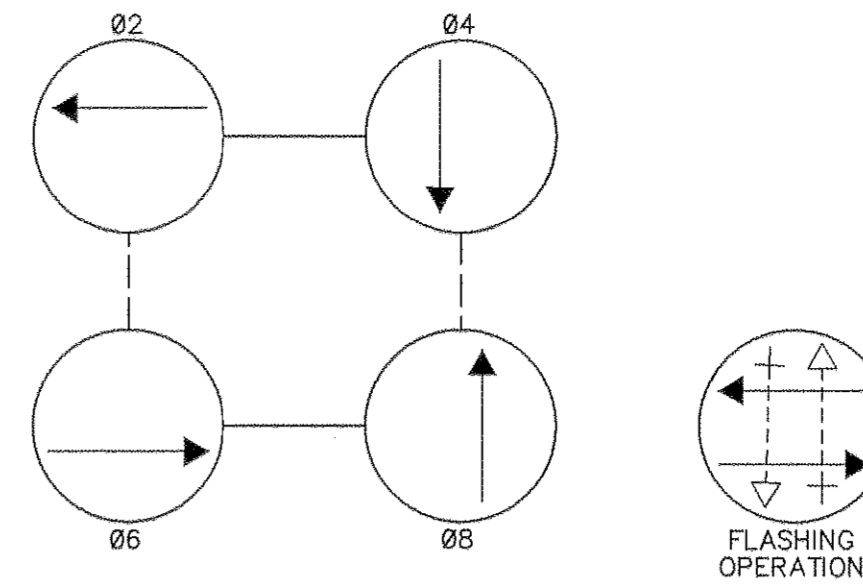
13,15
ONLY
R3-5(L)
30"x36"

SIGNS

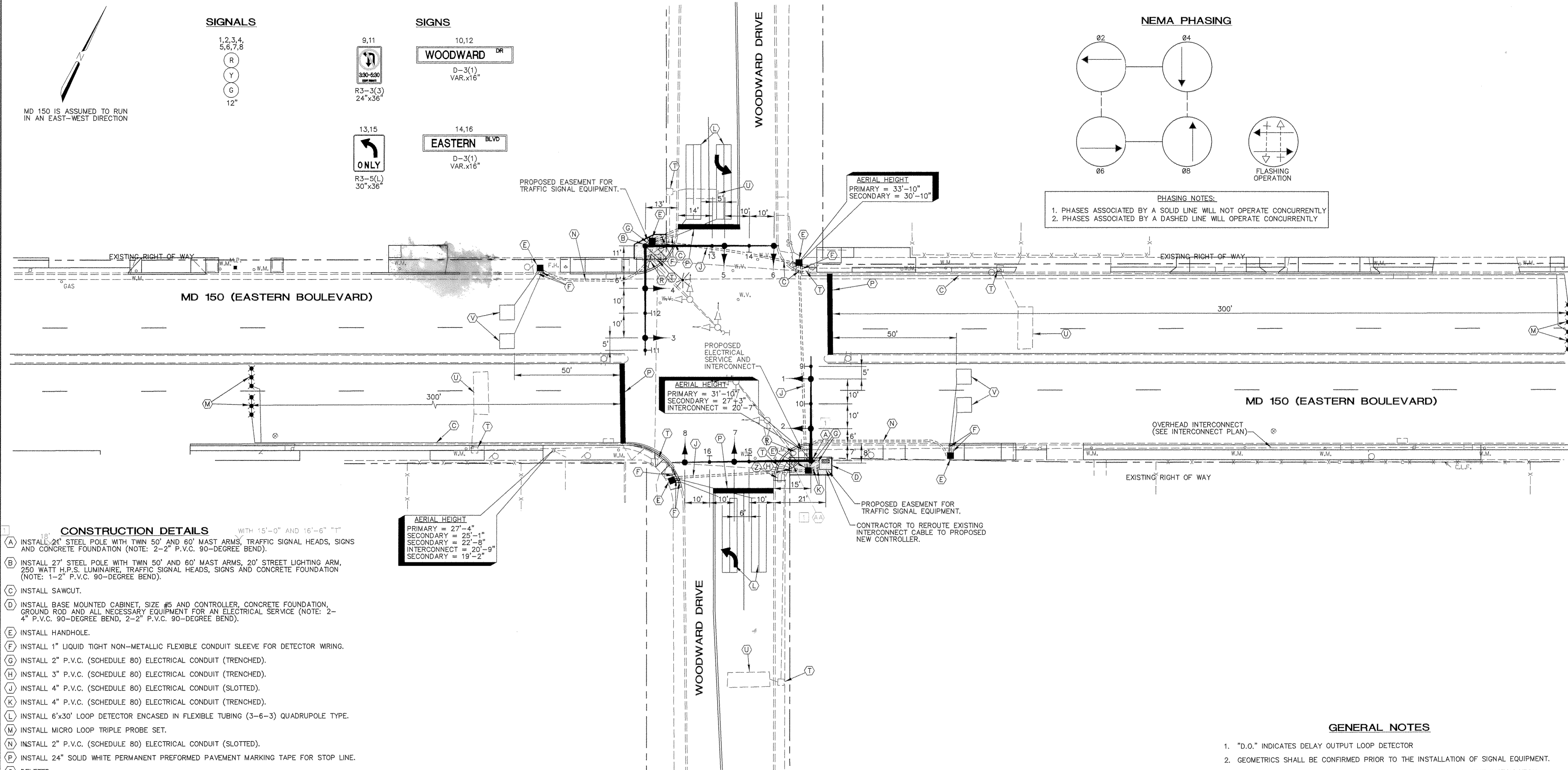
10,12
WOODWARD DR
D-3(1)
VAR.X16"

14,16
EASTERN BLVD
D-3(1)
VAR.X16"

NEMA PHASING



- PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY



- CONSTRUCTION DETAILS** WITH 15'-0" AND 16'-6" "T"
- (A) INSTALL 24" STEEL POLE WITH TWIN 50' AND 60' MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS AND CONCRETE FOUNDATION (NOTE: 2-2" P.V.C. 90-DEGREE BEND).
- (B) INSTALL 27" STEEL POLE WITH TWIN 50' AND 60' MAST ARMS, 20' STREET LIGHTING ARM, 250 WATT H.P.S. LUMINAIRE, TRAFFIC SIGNAL HEADS, SIGNS AND CONCRETE FOUNDATION (NOTE: 1-2" P.V.C. 90-DEGREE BEND).
- (C) INSTALL SAWCUT.
- (D) INSTALL BASE MOUNTED CABINET, SIZE #5 AND CONTROLLER, CONCRETE FOUNDATION, GROUND ROD AND ALL NECESSARY EQUIPMENT FOR AN ELECTRICAL SERVICE (NOTE: 2-4" P.V.C. 90-DEGREE BEND, 2-2" P.V.C. 90-DEGREE BEND).
- (E) INSTALL HANDHOLE.
- (F) INSTALL 1" LIQUID TIGHT NON-METALLIC FLEXIBLE CONDUIT SLEEVE FOR DETECTOR WIRING.
- (G) INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
- (H) INSTALL 3" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
- (J) INSTALL 4" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- (K) INSTALL 4" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
- (L) INSTALL 6"x30' LOOP DETECTOR ENCASED IN FLEXIBLE TUBING (3-6-3) QUADRUPOLE TYPE.
- (M) INSTALL MICRO LOOP TRIPLE PROBE SET.
- (N) INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- (P) INSTALL 24" SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE FOR STOP LINE.
- (Q) DELETED.
- (R) REMOVE EXISTING STEEL POLE, MAST ARMS SIGNAL HEADS, SIGNS AND FOUNDATION.
- (S) DELETED.
- (T) REMOVE EXISTING HANDHOLE.
- (U) ABANDON EXISTING LOOP DETECTOR AND MICRO-LOOP PROBE.
- (V) INSTALL 6"x6' LOOP DETECTOR ENCASED IN FLEXIBLE TUBING (4 TURNS).
- (W) DELETED.
- (X) DELETED.
- (Z) REMOVE EXISTING CONTROLLER, CABINET AND FOUNDATION.

AERIAL HEIGHT
PRIMARY = 27'-4"
SECONDARY = 25'-1"
INTERCONNECT = 22'-8"
SECONDARY = 20'-9"
SECONDARY = 19'-2"

AERIAL HEIGHT
PRIMARY = 31'-10"
SECONDARY = 27'-3"
INTERCONNECT = 20'-7"

AERIAL HEIGHT
PRIMARY = 33'-10"
SECONDARY = 30'-10"

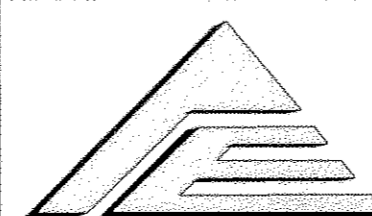
GENERAL NOTES

1. "D.O." INDICATES DELAY OUTPUT LOOP DETECTOR
2. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
3. LOOP DETECTORS AND CONDUITS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
4. PAVEMENT MARKING DETAILED ARE PROPOSED AND ARE TO BE INSTALLED PRIOR BY THE CONTRACTOR IN ACCORDANCE WITH S.H.A. STANDARDS ALL OTHER PAVEMENT MARKINGS WILL BE INSTALLED AS PART OF THE HIGHWAY CONTRACT.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
6. AS PART OF THIS ROAD CONSTRUCTION PROJECT SOME OVERHEAD UTILITIES WILL BE RELOCATED BY OTHERS.

UTILITY LEGEND

G — G — GAS MAIN
W — W — WATER MAIN
S — S — SEWER MAIN
SD — SD — STORM DRAIN
TV — TV — CABLE TELEVISION
E — E — ELECTRIC CABLES
T — T — TELEPHONE CABLES
A — A — AERIAL CABLES

(AA) REMOVE EXISTING LIGHT POLE.



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ENGINEERS • PLANNERS
181 E. Main Street
Westminster, Maryland 21157
A/E Job No. 98-367-002

REVISIONS	APPROVALS
	CHEF, DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

1. SIGNAL POLE REPLACEMENT, REMOVAL OF LIGHT POLES	08/25/99
2. REBUILD EXISTING TRAFFIC SIGNAL AND INTERCONNECT	02/09/99



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
**MD 150 (EASTERN BOULEVARD) AND
WOODWARD DRIVE**

LOG MI. 03015003.38

DATE: FEBRUARY 09, 1999

DRAWN BY: _____
CHECK BY: _____
SCALE: 1"=20'

F.A.P. NO. _____
S.H.A. NO. _____
COUNTY BALTIMORE

PLAN TS NO.: _____
SHEET NO. 26 OF 42
3863B